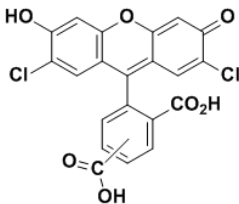


Certificate of Analysis (C of A)					
Name:	5(6)-CDCF *Mixed isomers* 5(6)-Carboxy-2',7'-dichlorofluorescein				
Catalog Number:	7031		Lot:	51182	
CAS Number:	111843-78-8		Formula:	C <sub>21</sub> H <sub>10</sub> Cl <sub>2</sub> O <sub>7</sub>	
Molecular Weight:	445.21 (g/mol)				
	<b>Observed</b>		<b>Standard</b>		
HPLC Purity:	98% at 254 nm		≥ 95% at 254 nm		
<b>Absorption (Buffer pH 10)</b>					
Wavelength (λ <sub>max</sub> ):	504 nm		504 ± 3 nm		
Extinction:	101,400 cm <sup>-1</sup> M <sup>-1</sup>		100,000 ± 10,000 cm <sup>-1</sup> M <sup>-1</sup>		
TLC Purity:	> 99%		≥ 95%		
TLC System:	75:20:5 Chloroform/ Methanol/ Acetic acid				
Storage:	Store at Room Temperature (RT), Protect from moisture (D), Protect from light (L)				
Production Lot:	14629	Release:	19-Nov-2014	Expiration:	19-Nov-2034
Structure:					

This data reflects the accuracy of the analysis of the subject lot  
 For research use only. Not for human use. No animal source.  
 This material is chemically synthesized and manufactured in the USA

**Approved by:** Dianna M Wineinger  
 Analytical Services Manager

**Date:** 19-Nov-2014

**Signature:** 